D249 Commercial Bases are pre-assembled at the factory with burner manifold, burner orifices, gas valves and electronic ignition installed; ready for field installation of the pre-tested sections and appropriate packages.

Plug ‘N Play Harness and Junction Box
Individual base and junction box controls are designed for easy installation. The entire boiler links together in a snap with a factory supplied color-coded wiring harness.

CSD1 Options
Available with a CSD-1 option to comply with CSD-1 standards where required by building code. The CSD-1 option provides the increased number of controls and safety devices required to meet CSD-1 standards.

D249 FEATURES

**Electronic Ignition Base Standard Equipment**
- Base
- Fire Door
- Burner Orifice
- Manifold
- Main and Pilot Burner
- Electronic Pilot Gas Valve
- Intermittent Pilot Module
- Complete Jacket Assembly

**Steam Trim Package**
- Low Water Cut-Off
- Glass Gauge Set
- Safety Valve
- Steam Gauge
- Pressure Limit
- Drain Valve
### PRODUCT SPECIFICATIONS

**RATINGS**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Input MBH</th>
<th>Gross Output MBH</th>
<th>Steam PPF</th>
<th>Steam Sq. Ft.</th>
<th>Steam MBH</th>
<th>Thermal Efficiency</th>
<th>Base Size &amp; Flue Outlet</th>
<th>Chimney Size I.D. x Ht.</th>
<th>Flue Collector Size to Chimney</th>
<th>Horsepower Gross Output</th>
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</thead>
<tbody>
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<td>D249-300S</td>
<td>300</td>
<td>233</td>
<td>1.333</td>
<td>729</td>
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</table>

1. Ratings are at sea level to 2,000 feet. For altitudes above 2,000 feet, reduce all ratings 4% for each 1,000 feet above sea level.
2. Net steam ratings based on piping and pickup allowance of 1.333 (300-1500). Contact Technical Support before selecting boiler for installations having unusual piping and pick-up factors, such as intermittent system operations, extensive piping systems, etc.
3. Ratings in square feet are computed at 240 Btuh/square foot for steam boilers.
4. Chimney sizes shown are one option based on a typical venting system as shown in Figure 6 of the Installation Manual, and sized according to the National Fuel Gas Code, assuming Type B double wall vent and vent connectors, other venting system designs are acceptable as shown on Flue Connection and Venting section of the installation manual. For further chimney design and sizing information, consult the National Fuel Gas Code, ANSI Z223.1/NFPA 54-latest revision, or ASHRAE HVAC Systems and Equipment Handbook, Chimney, Gas Vent, and Fireplace Systems, or the Standard for Chimneys, Fireplaces, Vents, and Solid Fuel Burning Appliances. NFPA 211. Follow standard engineering practice.
5. Ratings based on 33,500 Btuh per horsepower.

**RIGHT & LEFT END TAPPINGS**

- **A**: Supply & Return
- **B**: Primary LWCO & Gauge Glass Set
- **C**: Drain (Left & Right End)
- **D**: Plugged
- **E**: Accessories
- **F**: Safety Valve
- **G**: Plugged or Electronic (Probe Type) LWCO

*If opening F is to be used for something other than the Safety Valve or Pressure Relief Valve, or the Safety/Relief Valve is larger than 1", the Safety/Relief Valve must be installed in the Header Piping as near to the boiler as possible.*